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## Patent Abstracts of Japan

(10) 8 85045

PUBLICATION NUMBER : 09263466  
PUBLICATION DATE : 07-10-97

APPLICATION DATE : 27-03-96  
APPLICATION NUMBER : 08072886

APPLICANT : SUMITOMO OSAKA CEMENT CO LTD;

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INT.CL. : C04B 41/61

TITLE : ANTIMICROBIAL AGENT HAVING PERMEABILITY TO CONCRETE SURFACE

ABSTRACT : PROBLEM TO BE SOLVED: To provide an antimicrobial agent having durability to wind, rain or physical wear and capable of providing a concrete surface with antimicrobial, antimold properties and stain resistance by incorporating a water-soluble paste and an inorg. compd. powder having an antimicrobial effect, antifungus effect and alga-proofing effect.

SOLUTION: This antimicrobial agent having permeability for a concrete surface is obtd. by compounding an inorg. compd. and a water-soluble paste, and if necessary, a titanium oxide powder having photocatalytic activity and a silicone emulsion. The inorg. compd. has an antimicrobial effect, antimold effect and alga-proofing effect and consists of at least one metal selected from silver, copper, zinc, tin and nickel. The obtd. antimicrobial agent is applied or sprayed to 30-200 $\mu$ m thickness on a die frame for a concrete and then a concrete is pored into the die so that the antimicrobial agent permeates from the die frame into the concrete body.

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